Haskell

Mayank Gupta

28 May 2016

1 Project Report

15 May 2016
Member 1 : Mayank Gupta
Work Done : Introduction to haskell
Need and its Advantages
Terminal commands to navigate and open directories

16 May 2016
Member 1 : Mayank Gupta
Work Done : Creating Fucntions In haskell using Sublime Text editor (baby.hs)
List,List comprehension
Defining and working with Ranges

17 May 2016
Member 1 : Mayank Gupta
Work done : Defining Tuples
Learning Types
Type Variables and Type classes

18 May 2016
Member 1 : Mayank Gupta
Work Done : Syntax in Function
Pattern Matching in Functions
Using Guards and where statements in Function

19 May 2016
Member 1 : Mayank Gupta
Work Done : Let expression in haskell
Case expressions
Starting recursion

20 May 2016
Member 1 : Mayank Gupta
Work Done : Resursion, Base case, Its Need

Practising recursive function from LYAH
Implementing Quick Sort Recursively

21 May 2016
Member 1 : Mayank Gupta
Work Done : Curried Functions
Higher Orderism in order
Maps and filters
Lambdas

22 May 2016
Member 2 : Mayank Gupta
Work Done : Foldl and foldr
Function application with $
Function Composition

23 May 2016
Member 1 : Mayank Gupta
Work Done : Loading Modules in Haskell
Data.List Module
any,and,all funcitons
sort,group functions

24 May 2016
Member 1 : Mayank Gupta
Work Done : Qualified Importing Modules
Data.Char Module
Predicates like isControl,isSpace,isAlpha
ord,chr funtions

25 May 2016
Member 1 : Mayank Gupta
Work Done : Learned Latex
Started basics of Github

26 May 2016
Member 1 : Mayank Gupta
Work Done : Data.Map Module
fromList,insert,map and Filter function
Creating our own module

27 May 2016
Member 1 : Mayank Gupta
Work Done : Input Output Functions
Compiling first Haskell program.(helloworld.hs)
Difference between I/O and pure functions

28 May 2016
Member 1 : Mayank Gupta
Work Done : Files and Stream (continue...)

2 Member 2

Programming Club Documentation Bhuvan Beejawat **Web Development with Haskell**

WORK TIMELINE		
DATES	**TOPICS**	**RELEVANT INFO GAINED**
16 May	Ch. 1 Introduction	Basic Introduction to Haskell
17-18 May	Ch.2 Starting Out	Using Lists and Tuples
19-20 May	Ch.3 Types and Classes	Typeclasses and Type variables
21-23 May	Ch.4 Syntax	Building basic functions with case and let exp.
24 May	Ch.5 Recursion	solving problems with recursions
25-26 May	Ch.6	Using maps, filters and function compositions
27-28 May	Ch.7 Modules	Using Data. and building own modules
29 May	Ch.8 Making Types and Typeclasses	**In progress**

3 Member 3 : Abhinav Mishra

29 May 2016 Chapter covered - 9 I have covered 9 chapters of book "learn you a haskell for a great good". I spent first 5 days on learning syntax of haskell by studying initial 4 chapters next 3-4 days I learn modules and higher order programming (chapter 6 and 7)..in those chapters I learnt about use of map , filter ,fold zip etc..

next 2 days i studied "making of typeclass" and input/output mathods and file handeling in haskell.

4 Future Timeline

30 May - 5 June: Finishing the book LAYH along with 99 problems.
5 June - 20 June: Probability Algorithms, Hashing and cryptography.
20-25 June : Preparing a code for encrypting and also decrypting a text file.